

NORTON

SAINT-GOBAIN

WINTERTransforming
surfaces
...and beyond**CASE STUDY**

Norton Winter



Application **FLUTE GRINDING OF TWO FLUTE**
Market **TOOLS**

THE CUSTOMER'S CHALLENGE

A leading tool manufacturer was looking for a fluting wheel to improve their flute grinding applications and boost productivity.

MATERIAL Solid carbide
DIMENSION Ø 25 two flute end mill
STOCK REMOVAL 9,25 mm per flute

MACHINE WZS 700
COOLANT Oil
DRESSER Off-machine with SIC

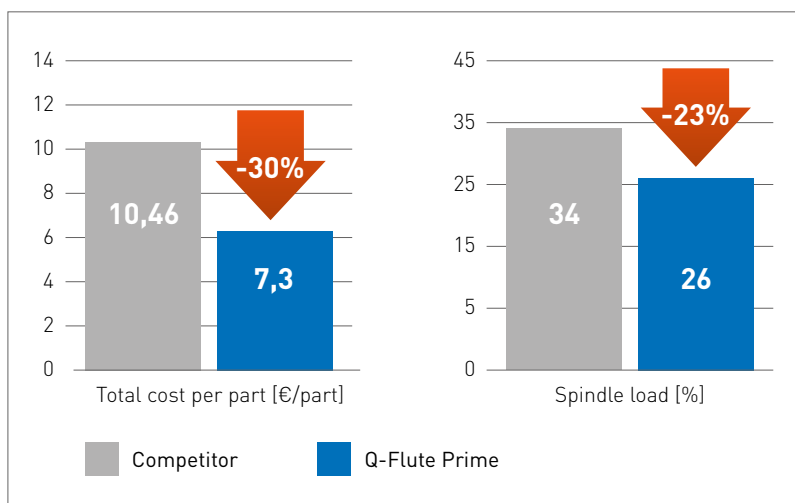
COMPETITOR
DIMENSION 100-15-10-20
SPECIFICATION standard

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PRODUCT Norton Winter Q-Flute PRIME
SHAPE/DIMENSION SP1V1-100-15-10-20 20* D54
WHEEL SPEED 17 M/S
PROCESS PARAMETERS Ae = 9,25 mm, 1 pass,
Vf = 30 mm/min

RESULTS

- 30 % reduction of total cost per part
- 50 % increase of Q'w max
- 50 % feed rate increase

Thanks to the new, outstanding free sharpening bond system, Q-Flute Prime enables a 23 % reduction in spindle load despite an increased feed rate. This results in higher productivity and longer machine life.



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